

# PATENT ABSTRACTS OF JAPAN

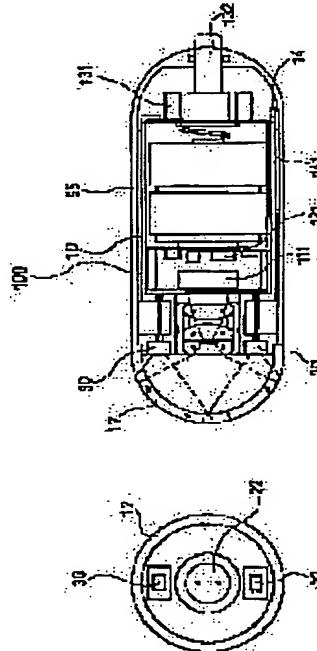
(11) Publication number : **2001-095756**  
 (43) Date of publication of application : **10.04.2001**

(51) Int.CI.

 A61B 1/00  
 A61B 5/07  
 G02B 23/24
(21) Application number : **11-279894**(22) Date of filing : **30.09.1999**(71) Applicant : **ASAHI OPTICAL CO LTD**
 (72) Inventor : **NINOMIYA ICHIRO  
 NAKAJIMA MASAAKI  
 NAKAMURA TETSUYA  
 FUSHIMI MASAHIRO  
 NAKANISHI TAICHI  
 EGUCHI MASARU  
 OHARA KENICHI**
**(54) CAPSULE TYPE ENDOSCOPE****(57) Abstract:**

**PROBLEM TO BE SOLVED:** To provide a miniaturized and practical capsule type endoscope having excellent assembling workability.

**SOLUTION:** The capsule type endoscope of the invention is operated such as that, the focusing object image of the illuminated object by illuminator is formed focusing object image on the image sensor by object lens, and the image signal is transmitted by wireless. The endoscope has feature to provide such parts; a front transparent about spherical cover to decide observation range; an illuminator accommodated in the cover and to emit illumination light to outside from almost whole range of the cover; an object lens to focus the object image illuminated by the illuminator; a tubular cover having semispherical end and to form water tight space with the front transparent cover; an image sensor to focus object image by object lens positioned at the nearest side of the front transparent cover; an image sensor controlling electric parts to control the image sensor; a battery; a transmitting electric parts to wireless transmitting electric signal from the image sensor; a power switch positioned as can be operated from outside, and positioned at water tight condition at the rear end semi-spherical part of the tubular cover.

**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application]

[converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office